

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01077

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12N 15/10, C12N 15/09, C12N 15/11, C12N 15/63
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12N, C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | Nature Biotechnology, Volume 20, 2002, Makoto Miyagishi et al, "U6 promoter-driven siRNAs with four uridine 3' overhangs efficiently suppress targeted gene expression in mammalian cells", pages 497-500, abstract, figure 1, page 499, left column, paragraph 2 -- | 1-17 |
| X | WO 0222634 A1 (SANGAMO BIOSCIENCES, INC.), 21 March 2002 (21.03.02), abstract, page 8, lines 13-15, page 30, line 3 - page 34, line 20, page 35, claim 1, page 38, claims 16-17 -- | 1-6,9-10,12, 14-15 |
| X | WO 0175178 A2 (ENANTA PHARMACEUTICALS, INC.), 11 October 2001 (11.10.01), page 8, line 7 - line 25; page 12, line 8 - line 10 -- | 1-5,9-10,12, 15 |

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
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 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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Date of the actual completion of the international search

30 Sept. 2003

Date of mailing of the international search report

07 -10- 2003

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | US 5824469 A (HORWITZ ET AL), 20 October 1998 (20.10.98), abstract, column 7, line 57-67, column 29, claim 2 -- | 1-5,9-10,12, 15 |
| A | National Library of Medicine, (NLM), file Medline, Medline accession no. 12903211, Kawasaki Hiroaki et al, "A functional gene discovery in cell differentiation by hybrid ribozyme and siRNA libraries" & Nucleic acids research. Supplement (2001), England 2002, No. 2, pages 275-276, last 7 lines -- | 1-17 |
| A | WO 0005415 A1 (IMMUSOL INCORPORATED), 3 February 2000 (03.02.00), page 18, line 20 - line 27; page 19, line 21 - line 32; page 24, line 29 - page 25, line 3, figure 1 -- | 1-17 |
| A | WO 9961631 A1 (NOVARTIS AG), 2 December 1999 (02.12.99), page 13, paragraph 2 -- | 1-17 |
| A | US 6153380 A (NOLAN ET AL), 28 November 2000 (28.11.00), column 3, line 58 - line 60; column 13, line 16 - line 48; column 101, claim 1 -- | 1-17 |
| A | WO 0188121 A1 (DEVGEN NV), 22 November 2001 (22.11.01), see especially abstract, page 3, line 26 - page 4, line 4 -- | 1-17 |
| A | PNAS, Volume 99, No. 8, 2002, Guangchao Sui et al, "A DNA vector-based RNAi technology to suppress gene expression in mammalian cells", pages 5515-5520, abstract, page 5515, left column, paragraph 2 - right column, paragraph 1, page 5517, figure 1A -- | 7 |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|--|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | Molecular and Biochemical Parasitology, Volume 111, 2000, Douglas J. et al, "Double-stranded RNA interference in Trypanosoma brucei using head-to-head promoters", pages 67-76, abstract, page 68, right column, lines 7-13, pages 74, right column, paragraph 3 -- | 1-17 |
| A | WO 0001846 A2 (DEVGEN N.V.), 13 January 2000 (13.01.00), abstract -- | 1-17 |
| P,X | EP 1229134 A2 (NUCLEONICS, INC.), 7 August 2002 (07.08.02), column 1, paragraph [0004], column 3, line 45, column 16, paragraph [0057], column 17, lines 19-20, column 24, line 53 - column 25, line 2 -- ----- | 1-17 |